













The requirements of scripting system SpinSPJ

1. SpinSPJ depends on SpinStudioJ and scripting environment of CPython. All the files can be downloaded from <http://www.spinstudioj.net/spinospj>.

2. For NMR software SpinStudioJ, the files are displayed in following figure.

 configuration	-----	Configuration files for RCP
 features	-----	Descriptions for a group of plugins
 logs	-----	Log files
 Model	-----	Models for deep learning
 p2	-----	update manager
 plugins	-----	CPython environment
 python	-----	All plugin files
 readme	-----	Description files
 system	-----	Configuration and data files for NMR system
 artifacts.xml	-----	Actual installed plugins
 SpinStudioJ.exe	-----	The executable file
 SpinStudioJ.ini	-----	Startup options

File list of SpinStudioJ

3. For script environment, a significant configuration file “system/config/pyconfig.ini” gives the location of CPython libraries. CPython native libraries are provided by the folder “python”. The libraries and versions are listed as follows:

Python>= 3.6

Scipy>= 1.4.1

Sklearn>= 0.24

Numpy>= 1.16.4

Pandas>= 1.0.5

Matplotlib>= 3.2.2

Pillow>= 7.2.0

Jep>= 3.9.1

Setuptools>= 50.3.0

h5py>= 2.10.0

pydes>= 2.0.1

tensorflow>= 1.14.0 (CPU version)

tensorflow-gpu>= 1.14.0 (GPU version)

4. Deep learning libraries such as tensorflow offer versions of CPU and GPU. GPU version is for parallel computing. If you need fast deep learning and have a high-performance graphics card, please choose GPU version of libraries.

5. SpinStudioJ and SpinSPJ support windows/Linux versions. Users can choose which version is needed.